

What is claimed is:

1. An electrolytic apparatus for molten salt disposed on an electrolytic cell to electrolyze an electrolytic bath consisting of a mixed molten salt comprises:
a first heat exchanging means to heat and/or cool an electrolytic cell body,
and
an outer flame which is sealed and disposed further surrounding outside of the first heat exchanging means with space, and
a decompression or a vacuum insulating zone which is formed in the outer flame.
2. An electrolytic apparatus for molten salt according to claim 1, wherein the electrolytic cell having a secondary heat exchanging means to heat the electrolytic cell body.
3. An electrolytic apparatus for molten salt disposed on an electrolytic cell to electrolyze an electrolytic bath consisting of the mixed molten salt comprises:
a first heat exchanging means to heat and/or cool an electrolytic cell body,
and an electric insulating material and a gas sealing material which are disposed in the electrolytic cell required the electric insulation and the gas sealing simultaneously.
4. An electrolytic apparatus for molten salt disposed on an electrolytic cell to electrolyze an electrolytic bath consisting of the mixed molten salt according to claim 1,2, wherein the first heat exchanging means to heat and/or cool an electrolytic cell body, and the electric insulating material and the gas sealing material which are disposed in the electrolytic cell required the electric insulating and gas sealing simultaneously.
5. An electrolytic apparatus for molten salt according to claim 1 - 3, wherein the first heat exchanging means having a flowing line to flow a heat exchanging medium around the electrolytic cell.
6. An electrolytic apparatus for molten salt according to claim 5, wherein the heat exchanging means is a highly electric insulating fluid.
7. An electrolytic apparatus for molten salt according to claim 1 - 3, 6, wherein the electrolytic cell is disposed in the box which upper part is opened.
8. An electrolytic apparatus for molten salt according to claim 1 - 3, 6, wherein the mixed molten salt comprises a hydrogen fluoride.